

Integrating Public and Private Network Resources for Optimized Broadband Wireless Access and Method

ABSTRACT OF THE DISCLOSURE

A system and method are disclosed for providing ubiquitous public network
5 access to wireless, mobile terminals using private networks having private network access
points and connections with the public network. The wireless, mobile terminals are permitted
to use wireless, radio frequency communication devices comprising private network access
points. A network access server (NAS) is associated with each wireless, radio frequency
10 communication device and provides an interface between the wireless, mobile terminals and
the private network. The NAS controls registration of wireless, mobile terminals as
subscribers, and provides public network access to the mobile terminals through the private
network's access point and public network connection. The NAS also restricts access by the
mobile terminals to the private network, meters network useage by the mobile terminals, and
15 controls use of bandwidth by the mobile terminals. The NAS also interfaces with integration
operator distributed services over the public network. The integration operator services
include databases and servers for storing and providing subscriber and network provider
information for subscriber registration, network access and useage control, and accounting
purposes. The NAS may be provided as a standalone element embodied in a computer, or
20 may be integrated with the wireless radio frequency device and/or a network adaptor device
for the private network.

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